

DATASHEET

FUJITSU PRIMERGY BX630 S2 DUAL- SOCKET SERVER BLADE

SCALABLE BLADE THAT IS IDEAL FOR CONSOLIDATION AND BUSINESS APPLICATIONS

The PRIMERGY BX Blade Servers are the ideal choice for data center solutions of today and tomorrow. Our blade servers provide maximum performance and maximum redundancy, but with only minimum space requirements, low power consumption and a reduction in the time and effort required for cabling. The PRIMERGY BX system family is designed to share components between chassis to enable quick and easy reactions to changing business requirements. Storage and server blades can be added without any extra effort, as would be needed when cabling or adding management software. You can use the same applications, rely on the same server and storage components and establish connections to the same networks. The PRIMERGY BX Blade Servers are flexible and have complete control via a central administration instance that is redundant in design; they minimize administrative time and effort, freeing you of time-consuming administration tasks. Our build-to-order process ensures that only completely installed and previously tested solutions are supplied, which have been precisely adapted to individual requirements and which will grow with future business requirements.

PRIMERGY BX630 S2

The Fujitsu PRIMERGY BX630 S2 server blade is a scalable AMD-based dual-socket server blade. It offers several future-oriented technologies, such as 23xx/83xx AMD Opteron™ processors as Quad-Core (QC) with 6MB TLC, 2.5 inch SAS or SATA-II hard disk drives, four 1 Gbit/s Onboard Ethernet LAN channels and an option for a two-channel 4 Gbit/s fibre channel connection. With its 8 slots for DDR2 DIMM modules and up to 64GB RAM the server blade is ideal for consolidation purposes and virtualization purposes. The Server Blade with its compact form factor contains functions to ensure high-availability, such as hot-plug hard disks, ECC, SDDC (Chipkill™), memory scrubbing memory protection and integrated Remote Management Controller (iRMC).

The PRIMERGY BX630 S2 Server Blade is designed for the BX600 S3 basic unit but can also be installed in some slots in the BX600 S2 system unit. Security functions in the BIOS set-up protect the data on the server blade from any unauthorized changes. Depending on the configuration the PRIMERGY BX630 uses one or two slots in the BX600 base unit.



FEATURES AND BENEFITS

| MAIN FEATURES | BENEFITS |
|---|--|
| SCALABLE ARCHITECTURE <ul style="list-style-type: none">■ AMD Opteron™ processors of the 23xx/83xx as Quad-Core (QC) with 6MB TLC. | <ul style="list-style-type: none">■ Two Fujitsu PRIMERGY BX630 S2 dual-socket server blades can be coupled to one quad-socket server blade with 16 processor cores. |
| RAM <ul style="list-style-type: none">■ Up to 128 GB RAM with one quad-socket server blade with a total of 16 slots for DDR2 DIMM modules. Support of ECC with memory scrubbing and SDDC (ChipKill™). | <ul style="list-style-type: none">■ Larger capacity and more powerful memory. |
| HARD DISK MODULES <ul style="list-style-type: none">■ Support of two 2.5 inch hot-plug SATA or SAS hard disk modules. | <ul style="list-style-type: none">■ The hard disk modules enable fast replacement of internal drives in running operation. |
| SERVER MANAGEMENT <ul style="list-style-type: none">■ Server Management is implemented using the supplied ServerView® Suite. The software is used to manage all the PRIMERGY servers in the network via a central console. | <ul style="list-style-type: none">■ Sophisticated server management functions help to extend running times, reducing operating costs and increasing productivity.■ Intelligent system administration for very robust reliability.■ Simplified and automated installation and initial operation of blade servers. |
| LAN AVAILABILITY <ul style="list-style-type: none">■ The BX630 S2 dual-socket server blade has two Onboard Ethernet LAN controllers each with two 1Gbit/s Ethernet channels. The connection to the Ethernet LAN is via Switch Blades or Pass-Thru Blades on the rear of the base unit. | <ul style="list-style-type: none">■ Excellent LAN connection capacities without additional effort. |

TECHNICAL DETAILS

PRIMERGY BX630 S2

MAINBOARD

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|----------------|----------------------------|
| Mainboard type | D 2931 |
| Chipset | ServerWorks HT2100, HT2100 |

MAINBOARD (BASE UNIT SPECIFIC)

| | | |
|-----------------------------|---|----------------------------------|
| Processor quantity and type | 1 - 2 x AMD Opteron™ 2300 / 8300 series | 1 - 4 x AMD Opteron™ 8300 series |
|-----------------------------|---|----------------------------------|

PROCESSOR

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|---|
| AMD Opteron™ 2372 (4C, 2.1 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 55 W)) |
| AMD Opteron™ 2374 (4C, 2.2 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 55 W)) |
| AMD Opteron™ 2376 (4C, 2.3 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 55 W)) |
| AMD Opteron™ 2376 (4C, 2.3 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 75 W)) |
| AMD Opteron™ 2380 (4C, 2.5 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 75 W)) |
| AMD Opteron™ 2384 (4C, 2.7 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 75 W)) |
| AMD Opteron™ 8374 (4C, 2.2 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 55 W)) |
| AMD Opteron™ 8380 (4C, 2.5 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 75 W)) |
| AMD Opteron™ 8384 (4C, 2.7 GHz, SLC: 4 x 512 KB, TLC: 6 MB (2 GT/s, 75 W)) |

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| Memory slot type | DIMM (DDR2) |
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| Memory protection | ECC SDDC (Chipkill™) Memory Scrubbing |
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| Memory slots | 8 (2 banks per CPU with 2 modules each) | 16 (2 banks per CPU with 2 modules each) |
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| Memory capacity (min. - max.) | 1 GB - 64 GB | 2 GB - 128 GB |
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MEMORY OPTIONS

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| 16 GB (2 module(s) 8 GB) DDR2, 667 MHz, PC2-5300 |
| 8 GB (module(s) 4 GB) DDR2, 800 MHz, PC2-6400 |
| 4 GB (module(s) 2 GB) DDR2, 800 MHz, PC2-6400 |
| 2 GB (module(s) 1 GB) DDR2, 800 MHz, PC2-6400 |

INTERFACES

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| USB ports | 2 x USB at the front via special cable |
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| Graphics (15-pin) | 1 x VGA at the front via special cable |
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I/O CONTROLLER ON BOARD

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| RAID Controller | 4 port for internal SAS HDDs, with RAID 0/1 for Windows and Linux |
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| Remote Management Controller | Integrated Remote Management Controller (iRMC) incl. graphics controller |
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I/O CONTROLLER (BASE UNIT SPECIFIC)

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| LAN Controller | 2 x BCM 5715S, (4 x 10/100/1000 Mbit/s Ethernet), | 4 x BCM 5715S, (8 x 10/100/1000 Mbit/s Ethernet), |
|----------------|---|---|

DRIVE BAYS (BASE UNIT SPECIFIC)

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| Hard disk bays | 2 x 2.5-inch hot-plug SAS/SATA | 4 x 2.5-inch hot-plug SAS/SATA |
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OPERATING PANEL

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| Operating buttons | On/off switch KVM selection button |
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OPERATING PANEL

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| Status LEDs | Power / Identification / Status (green / amber) KVM selection Mezzanine card status (green) LAN connection (green) |
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BIOS

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| BIOS features | ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support |
|----------------------|--|

SUPPORTED OPERATING SYSTEMS

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| Supported operating systems | Microsoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 R2 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux VMware Infrastructure Note: Support of other Linux derivatives on demand |
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|--------------------------------------|--|
| Operating system release link | http://ts.fujitsu.com/software http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421 |
|--------------------------------------|--|

| | |
|-----------------|---|
| Standard | Online update packages for BIOS, firmware drivers and ServerView Agents ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version) ServerView Deployment Manager (fully functional 30-day trial version) ServerView Suite: SV Installation Manager SV Operation Manager SV RAID Manager SV Update Management SV Power Management SV Agents |
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| Server Management notes | Regarding Operating System dependencies for ServerView Suite Software Products see dedicated Product Data sheets. |
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DIMENSIONS / WEIGHT (BASE UNIT SPECIFIC)

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| Floor-stand (W x D x H) | | |
| Rack (W x D x H) | 43 x 470 x 286 mm | 43 x 470 x 286 mm |
| Weight | 6 kg | 12 kg |
| Weight notes | Actual weight may vary depending on configuration | |

ENVIRONMENTAL

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| Temperature note | In accordance with the corresponding PRIMERGY BX600 System Unit |
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ELECTRICAL VALUES (BASE UNIT SPECIFIC)

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| Active power max. (per system unit) | 388 W | 776 W |
| Heat emission | 1396.8 kJ/h (1324.2 BTU) | 2793.6 kJ/h (2648.5 BTU) |

COMPLIANCE

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|------------------------------|--|
| Germany | GS |
| Europe | CE |
| USA/Canada | CSAc/us ULc/us FCC Class A |
| Global | CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) |
| Japan | VCCI |
| Australia/New Zealand | C-Tick |

COMPLIANCE

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|------------------|--|
| Compliance notes | In combination with corresponding PRIMERGY BX system unit There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. |
| Compliance link | https://sp.ts.fujitsu.com/sites/certificates/default.aspx |

COMPONENTS

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|--|---|
| HARD DISK DRIVES | SAS, 3 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch |
| | SAS, 3 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch |
| | SAS, 3 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch |
| | SAS, 3 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch |
| | SAS, 3 Gb/s, 73 GB, 10000 rpm, hot-plug, 2.5-inch |
| Hard disk notes | One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. |
| FIBRE CHANNEL CONTROLLER | Fibre Channel Mezzanine Card 2 x 4 Gb BX600-FC42E |
| | Ethernet Mezzanine Card 2 x 1 Gb |
| WARRANTY | |
| Standard Warranty | 3 years |
| Service level | On-site Service (depending on country) |
| MAINTENANCE AND SUPPORT SERVICES - THE PERFECT EXTENSION | |
| Recommended Service | 7x24, Onsite Response Time: 4h |
| Spare Parts availability | 5 years |
| Service Weblink | http://ts.fujitsu.com/Supportservice |

FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu PRIMERGY BX630 S2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

MORE INFORMATION

Learn more about Fujitsu PRIMERGY BX630 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. <http://ts.fujitsu.com/Primergy>

FUJITSU GREEN POLICY INNOVATION

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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